20000405.ba v02_n856.bam.20000405

>From ???@??? Wed Apr 5 21:30:19 2000 -0500
Date: Wed, 5 Apr 2000 21:27:32 CDT
From: Old Tube Radios <boatanchors@theporch.com>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: BOATANCHORS digest 2856
Message-Id: <20000406012746.5D8BF274AD@devel43.theporch.com>

BOATANCHORS Digest 2856

Topics covered in this issue include:

1) ADMINISTRIVIA: Using The Archives
   by listown@jackatak.theporch.com (Mail List Owner)
2) Re: Speaker And Output Transformer Questions
   by Gary Schafer <gschafer@mediaone.net>
3) Tube Pricing
   by "Ed Sieb" <sieb@sympatico.ca>
4) Japanese radio
   by saipan59@juno.com
5) RE: Speaker And Output Transformer Questions
   by "russ dworakowski" <wb3fau@hotmail.com>
6) RE: Speaker And Output Transformer Questions
   by "russ dworakowski" <wb3fau@hotmail.com>
7) Re: Speaker And Output Transformer Questions
   by Gary Schafer <gschafer@mediaone.net>
8) Re: Japanese radio
   by Richard Post <post@ouvaxa.cats.ohiou.edu>
9) Re: Speaker And Output Transformer Questions
   by "russ dworakowski" <wb3fau@hotmail.com>
10) Re: Speaker And Output Transformer Questions
   by Ken Lopez <kjlopez@earthlink.net>
11) Re: Speaker And Output Transformer Questions
   by Bob Roehrig <broehrig@admin.aurora.edu>
12) Shack Drippings #6
   by "ROBERT W. DOWNS" <RWDowns_WA5CAB@compuserve.com>
13) Red Coax
   by William Donzelli <aw288@osfn.org>
14) RE: Speaker And Output Transformer Questions
   by "Bill Hawkins" <bill@iaxs.net>
15) DC Calibration equipment and misc.
   by "David M. Upton" <david@wb1cmg.mv.com>
16) FREE ANTIQUE PAPER
   by JOHN.SEHRING@ecunet.org
17) Re: Speaker And Output Transformer Questions
   by Gary Schafer <gschafer@mediaone.net>
18) Re: Speaker And Output Transformer Questions

by Ken Lopez <kjlopez@earthlink.net>

Message-Id: <200004051615.e35GF2017778@jackatak.theporch.com>
From: listown@jackatak.theporch.com (Mail List Owner)
To: Old Tube Radios <boatanchors@theporch.com>
Subject: ADMINISTRIVIA: Using The Archives
Date: Wed, 5 Apr 2000 11:15:01 CDT

Gang-

!!!THIS INFORMATION HAS CHANGED!!!!

!!!SAVE THIS FILE FOR FUTURE REFERENCE!!!!!

This periodic post is designed to help everyone gain more value from their boatanchors subscription.

Often I receive an email request, or I read on the list, of someone who is aware there is an archive available with some special files with special information that is of a more permenant nature than a post to the list, but who is unaware of how to retrieve these gems.

In the archives, there are cross-reference tables for Tubes, Military Equipment Nomenclature, suggestions for restorations and modifications to our beloved fire bottle rigs, and some wonderful stories of real adventures and the people involved.

These files may be accessed by the Web... quickly and easily.
These files can also be accessed by email.

For WWW access:
- go to http://www.theporch.com
- select "ListProc Web Interface"
- on your first time there, click "Register For Full Account"
- follow the instructions, and BE SURE you use the email address that you have your BoatAnchors mail addressed to -- this interface will work ONLY for members of the list!
- Once registered, you can:
  - search the archives of previous posts (so far we haven't loaded all the previous posts online, but that is in the works;
  - download the index of files;
  - retrieve individual files
  - manage your subscription via the web interface

AWESOME!

For email access:
Step One:

send an email (leave the subject blank, or, if your mailer
requires a subject, type a single character, like "a" in
the subject box) to:
listproc@sco.theporch.com

Step Two:
in the body type:
index boatanchors

NOTE: The index *includes* all the previous articles now available
through the web interface, so the index is HUGE and difficult
to search -- the web interface is much easier.

Step Three:
after checking out the index for files of interest, and finding
the one or more you want to have sent to you, send another
email to:
listproc@sco.theporch.com

and, in the body, type:
get boatanchors file.name

where you substitute the name of the file from the index
for "file.name"

This should get you off to a good start. If you encounter any problems,
please let me know at the address below.
--
73
Jack, W4KH/Mobile - - - Mailing List Archiver/Owner - - -
listown@jackatak.theporch.com - "Plus ca change, plus c'est la meme chose"
"Il n'y a que les idiots qui ne changent jamais d'idee"
Wed Apr 5 11:15:00 CDT 2000

Message-ID: <38EB6C58.C3B1AA56@mediaone.net>
Date: Wed, 05 Apr 2000 12:39:53 -0400
From: Gary Schafer <gschafer@mediaone.net>
MIME-Version: 1.0
To: Old Tube Radios <boatanchors@theporch.com>
CC: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: Speaker And Output Transformer Questions
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

The impedance of a speaker has little to do with the dc resistance of the coil.
The dc
resistance will be different for a given impedance based on the power handling

ability of the speaker. The more power it is capable of the heavier wire the coil must be wound with and that results in a lower dc resistance.

As far as I know 3.2 ohms was at one time a standard speaker impedance. The older hi-fi stuff was 16 ohms on some of it. When the solid state equipment came along 8 ohms was adopted as the standard. I do not know why. Probably worked out as good compromise to efficiency and circuit complexity.

The output transformer used will reflect the speaker impedance back to the output tube by whatever ratio the transformer is. If you use an 8 ohm speaker on a transformer designed for 3.2 ohms you will probably notice little difference except when you try to get maximum power out. The output tube will go into clipping sooner as it sees a higher impedance load. Therefore you will not get as much undistorted output power as if the load was 3.2 ohms. If you go the other way, with a much lower impedance speaker than what the transformer is set up as, the tube will tend to draw more current which can start to saturate the transformer core and upset frequency response. There can be a pretty fair mismatch and still work ok. Where it really shows up is when maximum power is trying to be reached.

73
Gary K4FMX

Brian Goldsmith wrote:

> Ken and the list.I cannot agree with your statement that 3.2 ohms is the typical DC resistance of an 8 ohm speaker. The DC resistance of a typical 8 ohm impedance loudspeaker is usually double that figure .The DC resistance of a typical 3.2 ohm impedance loudspeaker would be lower than 3.2 ohms .
>
> Brian Goldsmith
>
> HI folks,
>
> 3.2 Ohms is the typical DC resistance of an 8 ohm speaker.
>

> Ken N6TZV

From: "Ed Sieb" <sieb@sympatico.ca>
To: Old Tube Radios <boatanchors@theporch.com>
Cc: "AM Reflector" <AMRadio@listbot.com>
Subject: Tube Pricing
Date: Wed, 5 Apr 2000 14:00:59 -0400
Message-ID: <LOBBJHOLOOHLIPLONIAFMEGFCLAA.sieb@sympatico.ca>
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 8bit

Hi All,

At a recent ëfest, I acquired two 304TH tubes, with finned plate caps. I donít use these, nor have any plans to do so. Theyíre in good condition, clean and filaments appear intact. No discoloration on the envelope. In the same deal, I also acquired some very choice tubes of particular interest to ìHigh-end audiophilesî, sporting the Western Electric trademark. Again, these are useless to me, but of great interest to those who appreciate large size triodes.

I definitely intend to get rid of them, by selling or trading. So, the question to the enlightened group is: Is there a preferred web site which posts current prices of tubes, or alternatively is there a preferred tube retailer with a price-list page? I need to get a ballpark idea of what these are worth.

T I A

73, Ed
VA3ES
~~~~~~
Ed Sieb, VA3ES   va3es@rac.ca
P. O. Box 8377, Ottawa Terminal, Ottawa, Ontario, K1G 3H8
613-738-8924
AMI #529 Canadian Division Director.
Member - Radio Club of America, QCWA, AWA
Net Manager - Canadian Boat Anchor Net (3745 Kcs)
~~~~~~

From: saipan59@juno.com
To: Old Tube Radios <boatanchors@theporch.com>

Date: Wed, 5 Apr 2000 12:10:25 -0600
Subject: Japanese radio
Message-ID: <20000405.121706.151.10.saipan59@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit

Regarding the following radio:

 >I placed Tom 's pics at the following URL.
>http://www.frognet.net/~postrd/guest/

It's a Japanese field radio (transmitter), type 94-6, dated January 1944,

made by a contractor in Tokyo. China had nothing to do with it.
It is NOT a survival or spy radio.
The red tag above the nomenclature tag says "GUNJI HIMITSU", which
means "military secret".
The tag on the inside is dated July 1942. That tag is specific to the
component
that it's mounted on (I think it's a transformer).
The generator was made in June 1944, and is also a type 94 item.

Pete McCollum

>Dear Richard,
>I have (acording to a Chinese resturant owner) a 1945
>vintage Chinese "Classified" survival or spy radio. It is in a leather
case.
>I have digital pics. How can I find out what
>kind of radio I have? Can you help steer me in the right
>direction? (he said the radio was built by Japan)

____
YOU'RE PAYING TOO MUCH FOR THE INTERNET!
Juno now offers FREE Internet Access!
Try it today - there's no risk! For your FREE software, visit:
http://dl.www.juno.com/get/tagj.

Message-ID: <20000405211449.54851.qmail@hotmail.com>
From: "russ dworakowski" <wb3fau@hotmail.com>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: RE: Speaker And Output Transformer Questions
Date: Wed, 05 Apr 2000 17:14:49 EDT
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

Bill, its worth mentioning that the Klipschorn is probably the most efficient speaker system in the world. The early models were 16 ohms. If you make acomparison of the K-Horn to air suspension speakers, there is a big difference as to how much you can get out of the Air suspension at 16 ohms, not much as compared to the K-Horn. Unless you have a huge amp. If you remember, the K-Horn will do 104 db out with just 1 watt in the 8 ohm version.

>From: "Bill Hawkins" <bill@iaxs.net>
>Reply-To: <bill@iaxs.net>
>To: Old Tube Radios <boatanchors@theporch.com>
>Subject: RE: Speaker And Output Transformer Questions
>Date: Wed, 5 Apr 2000 02:02:29 -0500
>
>Ken Lopez wrote:
> > 3.2 Ohms is the typical DC resistance of an 8 ohm speaker.
>
>When I was much younger, I tried to measure the impedance of a
>hi-fi speaker (15 inch in a homebrew Klipshorn cabinet). It seemed
>to be a series RLC circuit in that the impedance rose on either
>side of resonance. At resonance, you would just see resistive
>components like the DC voice coil resistance and acoustic power
>effects. But the load fell off so fast away from resonance that
>I have always wondered what the fuss was about with matching
>impedances and speakers. You need to approximately match the
>resonance load to the plate characteristics to get maximum
>power transfer at resonance, but the tube is just loafing as
>you go up in frequency.
>
>Certainly impedance ratios in transformers translate into voltage
>gain, and an 8 ohm speaker on a 600 ohm output doesn't sound very
>good (as military radio folks know), but the difference between
>a 3.2 ohm speaker and a 16 ohm speaker wouldn't be noticeable
>without instruments.
>
>Please, do *not* take this as an invitation to resurrect the
>audiophule thread again.
>
>Regards,
>Bill Hawkins
>
>"Do you suppose the people opposed to genetic modification realize
>that they are genetically modified apes?"
>

____
Get Your Private, Free Email at http://www.hotmail.com

Message-ID: <20000405211808.89084.qmail@hotmail.com>
From: "russ dworakowski" <wb3fau@hotmail.com>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: RE: Speaker And Output Transformer Questions
Date: Wed, 05 Apr 2000 17:18:08 EDT
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

I agree with you Brian, I just waited for someone else to
jump on that one. Russ

>From: "Brian Goldsmith" <goldsmith@oup.com.au>
>Reply-To: goldsmith@oup.com.au
>To: Old Tube Radios <boatanchors@theporch.com>
>CC: <boatanchors@theporch.com>
>Subject: RE: Speaker And Output Transformer Questions
>Date: Wed, 5 Apr 2000 18:35:21 +1000
>
>Ken and the list.I cannot agree with your statement that 3.2 ohms is the
>typical DC resistance of an 8 ohm speaker. The DC resistance of a typical 8
>ohm impedance loudspeaker is usually double that figure .The DC resistance
>of a typical 3.2 ohm impedance loudspeaker would be lower than 3.2 ohms .
>   Brian Goldsmith
>
>HI folks,
>
>3.2 Ohms is the typical DC resistance of an 8 ohm speaker.
>
>Ken N6TZV
>

____
Get Your Private, Free Email at http://www.hotmail.com

Message-ID: <38EBB29F.8268360A@mediaone.net>
Date: Wed, 05 Apr 2000 17:39:43 -0400
From: Gary Schafer <gschafer@mediaone.net>
MIME-Version: 1.0
To: Old Tube Radios <boatanchors@theporch.com>
CC: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: Speaker And Output Transformer Questions
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

At the resonant frequency of a speaker there is a big increase in impedance. Also the speaker is most efficient at that frequency thus less power is required at that frequency for the same output as other none resonant frequencies. In a properly designed enclosure the enclosure is sometimes tuned to cause a higher impedance on either side of the speaker (driver) resonance. This tends to flatten out the sharp rise in the impedance. Sometimes it is tuned to raise or lower the frequency of the resonance so as to smooth out the output of the system.

In driving a speaker you are concerned with the average impedance over most of it's frequency range.

Hope I got that right.
Gary K4FMX

russ dworakowski wrote:

```
> Bill, its worth mentioning that the Klipschorn is probably the
> most efficient speaker system in the world.  The early models
> were 16 ohms.  If you make acomparison of the K-Horn to air
> suspension speakers,  there is a big difference as to how much
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> compared to the K-Horn.  Unless you have a huge amp.  If you
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> >From: "Bill Hawkins" <bill@iaxs.net>
> >Reply-To: <bill@iaxs.net>
> >To: Old Tube Radios <boatanchors@theporch.com>
> >Subject: RE: Speaker And Output Transformer Questions
> >Date: Wed, 5 Apr 2000 02:02:29 -0500
> >
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> >I have always wondered what the fuss was about with matching
> >impedances and speakers. You need to approximately match the
> >resonance load to the plate characteristics to get maximum
> >power transfer at resonance,
```

Message-Id: <v03007807b5115ecf2432@[132.235.46.157]>

Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Date: Wed, 5 Apr 2000 17:35:38 -0400
To: Old Tube Radios <boatanchors@theporch.com>
From: Richard Post <post@ouvaxa.cats.ohiou.edu>
Subject: Re: Japanese radio

My suspicions on the nature of the Japanese "spy or survival" radio as military (after seeing the size of and the numbers on the crank generator and a close-up of the regenerative circuit) were confirmed rather quickly by the BA List. The first to nail the ID just minutes after my note hit the list serve was Tom Bryan. Pete McCollum confirmed the ID as well and added useful date information.

Tom pointed to an excellent site on Japanese and other military radios including the 94-6 at:

http://www.armyradio.com/publish/Articles/William_Howard_Japan/

Thanks. As usual the expertise on this list is the best.

Rich

>Regarding the following radio:
>
> >I placed Tom 's pics at the following URL.
>>http://www.frognet.net/~postrd/guest/
>
>It's a Japanese field radio (transmitter), type 94-6, dated January 1944,
>
>made by a contractor in Tokyo. China had nothing to do with it.
>It is NOT a survival or spy radio.

Message-ID: <20000405222024.48423.qmail@hotmail.com>
From: "russ dworakowski" <wb3fau@hotmail.com>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: Speaker And Output Transformer Questions
Date: Wed, 05 Apr 2000 18:20:24 EDT
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

Gary, I am not an authority on speakers, but I don't think you are correct on the impedance maxing out at resonance. I'll sit back and see what others have to say. Russ

>From: Gary Schafer <gschafer@mediaone.net>
>Reply-To: gschafer@mediaone.net

>To: Old Tube Radios <boatanchors@theporch.com>
>CC: Old Tube Radios <boatanchors@theporch.com>
>Subject: Re: Speaker And Output Transformer Questions
>Date: Wed, 05 Apr 2000 17:39:43 -0400
>
>At the resonant frequency of a speaker there is a big increase in
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>rise in the impedance. Sometimes it is tuned to raise or lower the
>frequency of the resonance so as to smooth out the output of the system.
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>In driving a speaker you are concerned with the average impedance over
>most of it's frequency range.
>
>Hope I got that right.
>Gary K4FMX
>
>
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>
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> > most efficient speaker system in the world. The early models
> > were 16 ohms. If you make acomparison of the K-Horn to air
> > suspension speakers, there is a big difference as to how much
> > you can get out of the Air suspension at 16 ohms, not much as
> > compared to the K-Horn. Unless you have a huge amp. If you
> > remember, the K-Horn will do 104 db out with just 1 watt in the
> > 8 ohm version.
> >
> > >From: "Bill Hawkins" <bill@iaxs.net>
> > >Reply-To: <bill@iaxs.net>
> > >To: Old Tube Radios <boatanchors@theporch.com>
> > >Subject: RE: Speaker And Output Transformer Questions
> > >Date: Wed, 5 Apr 2000 02:02:29 -0500
> > >
> > >Ken Lopez wrote:
> > > > 3.2 Ohms is the typical DC resistance of an 8 ohm speaker.
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> > >When I was much younger, I tried to measure the impedance of a
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> > >side of resonance. At resonance, you would just see resistive
> > >components like the DC voice coil resistance and acoustic power
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```
> > >impedances and speakers. You need to approximately match the
> > >resonance load to the plate characteristics to get maximum
> > >power transfer at resonance,
>


______________________________________________________
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------------------------------
Message-ID: <38EBCCB6.7A5F679@earthlink.net>
Date: Wed, 05 Apr 2000 16:31:05 -0700
From: Ken Lopez <kjlopez@earthlink.net>
MIME-Version: 1.0
To: Old Tube Radios <boatanchors@theporch.com>
CC: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: Speaker And Output Transformer Questions
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Impedance is very low at the low frequency limit of the loudspeaker,
rises to a large peak at resonance, then drops to a very low value above
resonance.  Then, with increasing frequency, the impedance steadily
rises, often to a level approaching that at resonance.

Ken N6TZV
>
> Gary, I am not an authority on speakers,  but I don't think you
> are correct on the impedance maxing out at resonance.  I'll sit
> back and see what others have to say.  Russ
>
> >From: Gary Schafer <gschafer@mediaone.net>
> >Reply-To: gschafer@mediaone.net
> >To: Old Tube Radios <boatanchors@theporch.com>
> >CC: Old Tube Radios <boatanchors@theporch.com>
> >Subject: Re: Speaker And Output Transformer Questions
> >Date: Wed, 05 Apr 2000 17:39:43 -0400
> >
> >At the resonant frequency of a speaker there is a big increase in
> >impedance. Also the speaker is most efficient at that frequency thus
> >less power is required at that frequency for the same output as other
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> >enclosure is sometimes tuned to cause a higher impedance on either side
> >of the speaker (driver) resonance. This tends to flatten out the sharp
> >rise in the impedance. Sometimes it is tuned to raise or lower the
> >frequency of the resonance so as to smooth out the output of the system.
> >
> >In driving a speaker you are concerned with the average impedance over
> >most of it's frequency range.
```

> >
> >Hope I got that right.
> >Gary K4FMX

Date: Wed, 5 Apr 2000 19:01:29 -0500 (CDT)
From: Bob Roehrig <broehrig@admin.aurora.edu>
To: Old Tube Radios <boatanchors@theporch.com>
cc: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: Speaker And Output Transformer Questions
Message-ID: <Pine.OSF.3.96.1000405185908.17604C-100000@admin.aurora.edu>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Wed, 5 Apr 2000, Gary Schafer wrote:

> At the resonant frequency of a speaker there is a big increase in
> impedance.

SNIP etc etc

> Hope I got that right.
> Gary K4FMX

Absolutely. Normally a speaker's advertised impedance is that measured at 1000 Hz. I have seen 8 ohm speakers measure as high as 50 ohms at free air resonance.

"Nostalgia is a thing of the past"
E-mail: broehrig@admin.aurora.edu or k9eui@arrl.net   73 de Bob, K9EUI
CIS: Data / Telecom   Aurora University, Aurora, IL
630-844-4898 Fax 630-844-4222
PLEASE PUT ALL REPLIES IN ASCII TEXT ONLY

Date: Wed, 5 Apr 2000 21:09:17 -0400
From: "ROBERT W. DOWNS" <RWDowns_WA5CAB@compuserve.com>
Subject: Shack Drippings #6
To: Old Tube Radios <boatanchors@theporch.com>
Message-ID: <200004052109_MC2-A017-C4A2@compuserve.com>
MIME-Version: 1.0
Content-Transfer-Encoding: quoted-printable
Content-Type: text/plain;
      charset=ISO-8859-1
Content-Disposition: inline

Groups,

TNC connectors are relatively rarely used in the radios that we are
interested in but they are used in a few. I have a case of cables
approximately 10" long with a straight TNC connector on one end and a
right-angle one on the other. A few of the cables are labled
CG-1887/TRA-25 and RG-142B/U. Most are unmarked. Packed two to a box,
each box is labled 5995-00-776-5425. Price is $3.00 per box (two cables)=

plus shipping.

For those of you who are unclear as to what a TNC connector is, it is
identical in size to the BNC but uses a threaded rather than bayonet type=

coupling. Another way to describe it would be to say that it is a
half-size N connector. RG-142 is physically the same size as RG-58, but =
is
stiffer and has a clear jacket.

Robert Downs
WA5CAB
Houston

Date: Wed, 5 Apr 2000 21:41:23 -0400 (EDT)
From: William Donzelli <aw288@osfn.org>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Red Coax
Message-ID: <Pine.SUN.3.91-FP.1000405213703.29703B-100000@osfn.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

I need a few feet of red coax wire - the kind found dangling out of the
end of the BC-645-A IFF box. Does anyone on the list have an old BC-645-A
with this wire? I do not need the PL-202 normally attached to it.

This wire originally was used to denoate the squibs. I am cleaning up a
nice ABA-1 here, but the rubber on the wire has turned to muck.

William Donzelli
aw288@osfn.org

From: "Bill Hawkins" <bill@iaxs.net>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: RE: Speaker And Output Transformer Questions
Date: Wed, 5 Apr 2000 20:47:52 -0500
Message-ID: <001801bf9f6a$1f4aaa80$0b0aa8c0@normandale>
MIME-Version: 1.0

Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Well, we now have a set of conflicting opinions on this subject.
No one has referenced an authority. Does one exist, or do we go
on sharing our ignorance - something email is really good at.

Bill Hawkins

Message-ID: <38EBEF36.676A0B67@wb1cmg.mv.com>
Date: Wed, 05 Apr 2000 21:58:14 -0400
From: "David M. Upton" <david@wb1cmg.mv.com>
MIME-Version: 1.0
To: Old Tube Radios <boatanchors@theporch.com>
Subject: DC Calibration equipment and misc.
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

I would like to get in touch with someone knowledgeable about DC
calibration equipment and low frequency bridges. I have a number of
items but don't feel I can adequately describe them or verify their
condition. Please e-mail me off list.

David M. Upton, WB1CMG
FN42DV

Date: Wed, 5 Apr 2000 22:08:46 -0400 (EDT)
From: JOHN.SEHRING@ecunet.org
Message-Id: <200004060208.WAA09771@ecunet.org>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: FREE ANTIQUE PAPER

FREE--To the person with the best story of why they would like to have
this. I even pay postage.

Articles & bits cut from radio magazines of the 1920's by someone long ago:

How to make a spider-web tuner (from Popular Radio)
New and compact panel arc transmitter (1000 kW) (" ")
An efficient short-wave receiving set (from The Radio Consturctor)
& some misc. stuff of same vintage

 -John Sehring (Wed, Apr 5, 2000, Custer SD) UCC WB0EQ

Message-ID: <38EBF3FD.BD14DFD4@mediaone.net>
Date: Wed, 05 Apr 2000 22:18:37 -0400
From: Gary Schafer <gschafer@mediaone.net>
MIME-Version: 1.0
To: Old Tube Radios <boatanchors@theporch.com>
CC: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: Speaker And Output Transformer Questions
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Not sure which or whose opinion you are referring to as being in conflict .
If you are referring to the fact that speaker impedance rises at it's resonance or any of my other statements, the information can be referenced in the Hi-Fi LOUDSPEAKERS AND ENCLOSURES book by Abraham B Cohen published by Hayden. Page 92 chapter on Loudspeaker resonance, impedance and damping. This same basic information is available in most any book on speaker building or speaker theory.
I suppose I could quote word for word.
Usually when someone on here makes a statement that I reply too I will dig out one of my books and look up the subject to see if the guy knows what he is talking about. We all learn a little that way. I don't claim to always be right. A challenge makes us think a little.

Best regards
Gary K4FMX

Bill Hawkins wrote:

> Well, we now have a set of conflicting opinions on this subject.
> No one has referenced an authority. Does one exist, or do we go
> on sharing our ignorance - something email is really good at.
>
> Bill Hawkins

Message-ID: <38EBF5F6.EDFC09FA@earthlink.net>
Date: Wed, 05 Apr 2000 19:27:13 -0700
From: Ken Lopez <kjlopez@earthlink.net>
MIME-Version: 1.0
To: Old Tube Radios <boatanchors@theporch.com>
CC: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: Speaker And Output Transformer Questions
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Gary,

Good point of view. Fact is that unless we work with these principles on a daily basis, they are bound to get fuzzy. I have a library full of loudspeaker books and would be happy to provide references on particular questions from the real sages who worked most of this out a long time ago.

Cheers,
Ken N6TZV

Gary Schafer wrote:
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End of BOATANCHORS Digest 2856
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